# LTMR27PBD

Motor controller, TeSys T, Motor Management, Profibus DP, 6 logic inputs, 3 relay logic outputs, 1.35 to 27A, 24VDC





#### Main

| TeSys  |
|--|
| TeSys T  |
| LTMR   |
| Motor controller   |
| Equipment monitoring and control   |
| 1.3527 A   |
| 24 V DC  |
| 56127 mA   |
| 20.426.24 V DC   |
| Profibus DP  |
| Profibus DP polarised 2-wire RS485 interface, addressing 1125, transmission rate 9.6 kbit/s12 Mbit/s, SUB-D 9 with 2 shielded twisted pairs, type A Profibus DP polarised 2-wire RS485 interface, addressing 1125, transmission rate 9.6 kbit/s12 Mbit/s, terminal block with 2 shielded twisted pairs, type A |
|  |

Complementary

| Input current                          | 7 mA   |
|--|--|
| Logic input number                     | 6  |
|  | Waiting time after overload tripping                                       |
|  | Event recording  |
|  | Phase fault and earth fault trip counters                                  |
|  | Trip context information Trip history information                          |
|  | Running hours counter/operating time                                       |
|  | Motor control command recording  |
|  | Remaining operating time before overload tripping                          |
|  | Fault recording  |
| Network and machine diagnosis type     | Starting current and time  |
|  | Reverse polarity protection  |
|  | Thermal overload protection  |
|  | Earth-leakage protection   |
|  | Locked rotor   |
|  | Phase unbalance  |
|  | Load fluctuation   |
|  | Phase failure  |
|  | Overload (long time)   |
|  | Power factor variation   |
|  | Thermal protection   |
| Protection type                        | Overload   |
|  | 0.5 A gG for control circuit   |
| Associated fuse rating                 | 4 A gG for output  |
| Short-circuit withstand                | 100 kA conforming to EN/IEC 60947-4-1                                      |
|  | 0.8 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1           |
|  | 0.8 KV communication circuit conforming to EN/IEC 60947-4-1                |
| [Uimp] rated impulse withstand voltage | 6 KV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 |
|  | 690 V conforming to UL 508   |
|  | 690 V conforming to CSA C22.2 No 14  |
| [Ui] rated insulation voltage          | 690 V conforming to EN/IEC 60947-1   |

| Current state 0 guaranteed         | Logic input: < 5 V and <= 15 mA for 5 ms  |
|------------------------------------|---|
| Current state 1 guaranteed         | Logic input: < 15 V and 215 mA for 15 ms  |
| Maximum output switching frequency | 2 Hz  |
| Load current                       | 5 A at 250 V AC for logic output<br>5 A at 30 V DC for logic output   |
| Permissible power                  | 480 VA (AC-15), le = 2 A, 500000 cycles (output)<br>30 W (DC-13), le = 1.25 A, 500000 cycles (output)   |
| Maximum operating rate             | 1800 cyc/h  |
| Contacts type and composition      | 1 NO + 1 NC fault signal<br>3 NO  |
| Metering type                      | Average current lavg Temperature Imbalance current Phase current I1, I2, I3 RMS Earth-fault current   |
| Measurement accuracy               | 515 % earth fault current internal measurement 1 % voltage (100830 V) 3 % power factor 5 % earth fault current external measurement +/- 30 min/year internal clock 0,02 temperature 1 % current 5 % active and reactive power   |
| Overvoltage category               | III   |
| Connection pitch                   | 5.08 mm   |
| Connections - terminals            | Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible with cable end Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.252.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.22.5 mm² (AWG 24AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.21.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.51.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.51.5 mm² (AWG 24AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.21 mm² (AWG 24AWG 14) solid without cable end  |
| Tightening torque                  | Control circuit: 0.50.6 N.m flat screwdriver 3 mm   |
| Pollution degree                   | 3   |
| Electromagnetic compatibility      | Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4 Fast transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming to EN/IEC 61000-4-4 Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11 Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6 Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5 Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5 Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (serial mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 |
| Width                              | 91 mm   |
| Height                             | 61 mm   |
| Depth                              | 122.5 mm  |
| Net weight Web services            | 0.53 kg Web server  |
| WED SELVICES                       |   |

#### **Environment**

| Standards                             | UL 508<br>IACS E10   |
|---------------------------------------|--|
|                                       | EN 60947-4-1   |
|                                       | IEC 60947-4-1  |
|                                       | CSA C22.2 No 14  |
| Product certifications                | C-Tick[RETURN]CCC[RETURN]ABS[RETURN]NOM[RETURN]LROS  |
|                                       | (Lloyds register of shipping)<br>[RETURN]EAC[RETURN]RINA[RETURN]ATEX[RETURN]GL[RETURN]KERI[RETURN]DNV[ |
| Protective treatment                  | 12 x 24 hour cycles conforming to EN/IEC 60068-2-30  |
|                                       | 48 h conforming to EN/IEC 60070-2-11   |
|                                       | TH conforming to EN/IEC 60068  |
| Fire resistance                       | 650 °C conforming to EN/IEC 60695-2-12   |
|                                       | 960 °C conforming to UL 94   |
| Ambient air temperature for operation | -2060 °C   |
| Ambient air temperature for storage   | -4080 °C   |
| Operating altitude                    | <= 2000 m without derating   |
| Mechanical robustness                 | Vibrations mounted on symmetrical rail: 1 Gn, 5300 Hz conforming to EN/IEC 60068-2-6                   |
|                                       | Vibrations plate mounted: 4 Gn, 5300 Hz conforming to EN/IEC 60068-2-6                                 |
|                                       | Shocks half sine wave acceleration: 15 Gn for 11 ms conforming to EN/IEC 60068-2-27                    |
| IP degree of protection               | IP20   |
|                                       |  |

### Packing Units

| •                            |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 7.2 cm   |
| Package 1 Width              | 10.0 cm  |
| Package 1 Length             | 13.6 cm  |
| Package 1 Weight             | 514.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 10       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 5.485 kg |
|                              |          |

## Offer Sustainability

| Sustainable offer status    | Green Premium product   |
|-----------------------------|---|
| REACh Regulation            | REACh Declaration   |
| EU RoHS Directive           | Compliant with Exemptions   |
| Mercury free                | Yes   |
| China RoHS Regulation       | China RoHS Declaration  |
| RoHS exemption information  | ₫Yes  |
| Environmental Disclosure    | Product Environmental Profile   |
| Circularity Profile         | End Of Life Information   |
| WEEE                        | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free                    | Yes   |
| Halogen content performance | Halogen free plastic parts product  |

### Contractual warranty

| Warranty | 18 months |  |
|----------|-----------|--|